CIVIL QUALITY CONSULTANTS & ENGINEERS

ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No: CQCE/BBMP/MC/16/2021-2022 Date : 23.03.2022

GRADATION FOR GSB (Grading V)

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency: **: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.
Name of work: : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing : 21.03.2022 to 23.03.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1025	1025	7.88	92.12	80-100
26.5	2254	3279	25.22	74.78	55-90
9.5	2239	5518	42.45	57.55	35-65
4.75	1452	6970	53.62	46.38	25-50
2.36	3652	10622	81.71	18.29	10-20
0.85	1427	12049	92.68	7.32	2-10
0.425	741	12790	98.38	1.62	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	24.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

Note:

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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CIVIL QUALITY CONSULTANTS & ENGINEERS
ISO 9001:2015 Certified & NABL Accredited Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No: CQCE/BBMP/MC/16/2021-2022 Date : 23.03.2022

GRADATION FOR GSB (Grading V)

Client : Executive Engineer, R R Nagar Division, BBMP, Bangalore.
Agency: : Sri. Maruthi Construction(H Hanumanthegowda), Contractor, Bangalore.
Name of work: : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing : 21.03.2022 to 23.03.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1542	1542	11.86	88.14	80-100
26.5	2415	3957	30.44	69.56	55-90
9.5	2236	6193	47.64	52.36	35-65
4.75	1632	7825	60.19	39.81	25-50
2.36	2748	10573	81.33	18.67	10-20
0.85	1325	11898	91.52	8.48	2-10
0.425	654	12552	96.55	3.45	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	22.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No: CQCE/BBMP/MC/16/2021-2022 Date : 23.03.2022

GRADATION FOR GSB (Grading V)

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore
Agency: **: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore
Name of work: : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing : 21.03.2022 to 23.03.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1425	1425	10.96	89.04	80-100
26.5	2239	3664	28.18	71.82	55-90
9.5	2239	5903	45.41	54.59	35-65
4.75	1528	7431	57.16	42.84	25-50
2.36	3120	10551	81.16	18.84	10-20
0.85	1524	12075	92.88	7.12	2-10
0.425	555	12630	97.15	2.85	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	23.50	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No: CQCE/BBMP/MC/16/2021-2022 Date : 23.03.2022

GRADATION FOR GSB (Grading V)

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency: **: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.
Name of work: : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing : 21.03.2022 to 23.03.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1154	1154	8.88	91.12	80-100
26.5	2563	3717	28.59	71.41	55-90
9.5	2102	5819	44.76	55.24	35-65
4.75	1528	7347	56.52	43.48	25-50
2.36	3269	10616	81.66	18.34	10-20
0.85	1520	12136	93.35	6.65	2-10
0.425	652	12788	98.37	1.63	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	21.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No: CQCE/BBMP/MC/16/2021-2022 Date : 23.03.2022

GRADATION FOR GSB (Grading V)

Client : **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency: **: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.
Name of work: : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore

BIS Code: IS 2386 Part (1):1963
IS 2720 part (5):1985

Date of Testing : 21.03.2022 to 23.03.2022

Oven Dry Wt (gm) : 13000

TABLE – 1

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirements as per MORTH 5th edition table 400.1
75	0	0	0.00	100	100
53	1322	1322	10.17	89.83	80-100
26.5	2254	3576	27.51	72.49	55-90
9.5	2215	5791	44.55	55.45	35-65
4.75	1428	7219	55.53	44.47	25-50
2.36	3223	10442	80.32	19.68	10-20
0.85	1682	12124	93.26	6.74	2-10
0.425	412	12536	96.43	3.57	0-5

Table 2

Sl. No.	Particulars	Test Results	Requirements as per MORTH 5th edition table 400.2
1	Liquid Limit, %	24.00	25.0% Maximum.
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

Remarks: Satisfies MORTH Specifications as per Table 400-1, Grading V

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MC/16/2021-2022 Date : : 28.03.2022

GRADATION FOR WMM

Client **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.
Name of Work : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 28.03.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	221	221	2.2	97.8	95-100
22.4	2682	2903	29.0	71.0	60-80
11.2	2301	5204	52.0	48.0	40-60
4.75	1239	6443	64.4	35.6	25-40
2.36	1023	7466	74.7	25.3	15-30
0.600	952	8418	84.2	15.8	8-22
0.075	1362	9780	97.8	2.2	0-5

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IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 28.03.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	336	336	3.4	96.6	95-100
22.4	2514	2850	28.5	71.5	60-80
11.2	2125	4975	49.8	50.3	40-60
4.75	1425	6400	64.0	36.0	25-40
2.36	1025	7425	74.3	25.8	15-30
0.600	785	8210	82.1	17.9	8-22
0.075	1521	9731	97.3	2.7	0-5

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IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 28.03.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	260	260	2.6	97.4	95-100
22.4	2698	2958	29.6	70.4	60-80
11.2	2239	5197	52.0	48.0	40-60
4.75	1654	6851	68.5	31.5	25-40
2.36	1021	7872	78.7	21.3	15-30
0.600	825	8697	87.0	13.0	8-22
0.075	852	9549	95.5	4.5	0-5

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GRADATION FOR WMM

Client **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.
Name of Work : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 28.03.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	235	235	2.4	97.7	95-100
22.4	2532	2767	27.7	72.3	60-80
11.2	2022	4789	47.9	52.1	40-60
4.75	1528	6317	63.2	36.8	25-40
2.36	1236	7553	75.5	24.5	15-30
0.600	954	8507	85.1	14.9	8-22
0.075	1212	9719	97.2	2.8	0-5

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IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 28.03.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	335	335	3.4	96.7	95-100
22.4	2748	3083	30.8	69.2	60-80
11.2	2518	5601	56.0	44.0	40-60
4.75	1582	7183	71.8	28.2	25-40
2.36	1026	8209	82.1	17.9	15-30
0.600	714	8923	89.2	10.8	8-22
0.075	693	9616	96.2	3.8	0-5

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Job No.: CQCE/BBMP/MC/16/2021-2022 Date : : 28.03.2022

GRADATION FOR WMM

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Name of Work : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 28.03.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	222	222	2.2	97.8	95-100
22.4	2396	2618	26.2	73.8	60-80
11.2	2782	5400	54.0	46.0	40-60
4.75	1628	7028	70.3	29.7	25-40
2.36	1326	8354	83.5	16.5	15-30
0.600	541	8895	89.0	11.1	8-22
0.075	859	9754	97.5	2.5	0-5

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Job No.: CQCE/BBMP/MC/16/2021-2022 Date : : 28.03.2022

GRADATION FOR WMM

Client **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency : **Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.
Name of Work : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 28.03.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	262	262	2.6	97.4	95-100
22.4	2692	2954	29.5	70.5	60-80
11.2	2654	5608	56.1	43.9	40-60
4.75	1582	7190	71.9	28.1	25-40
2.36	1025	8215	82.2	17.9	15-30
0.600	547	8762	87.6	12.4	8-22
0.075	968	9730	97.3	2.7	0-5

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For CIVIL QUALITY CONSULTANTS & ENGINEERS

Authorised Signatory

Corporate Off.: No. 133, Bhuvaneshwarinagar, Doddabasti Main Road, Bangalore-560 056.
Contact: 8553518550, 080-23240644 Email: civilqualityconsultants@gmail.com

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CIVIL QUALITY
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Laboratory as per ISO/IEC - 17025-2017

Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MC/16/2021-2022

Date : : 28.03.2022

GRADATION FOR WMM

Client **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.

Agency **: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.

Name of Work : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 28.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	326	326	3.3	96.7	95-100
22.4	2748	3074	30.7	69.3	60-80
11.2	2692	5766	57.7	42.3	40-60
4.75	1236	7002	70.0	30.0	25-40
2.36	1258	8260	82.6	17.4	15-30
0.600	754	9014	90.1	9.9	8-22
0.075	800	9814	98.1	1.9	0-5

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MC/16/2021-2022 Date : : 28.03.2022

GRADATION FOR WMM

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Agency **: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.
Name of Work : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 28.03.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	356	356	3.6	96.4	95-100
22.4	2302	2658	26.6	73.4	60-80
11.2	2369	5027	50.3	49.7	40-60
4.75	1482	6509	65.1	34.9	25-40
2.36	1329	7838	78.4	21.6	15-30
0.600	685	8523	85.2	14.8	8-22
0.075	1212	9735	97.4	2.6	0-5

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Job No.: CQCE/BBMP/MC/16/2021-2022 Date : : 28.03.2022

GRADATION FOR WMM

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Agency **: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.
Name of Work : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore
IS Code: : IS 2386 (Part 1):1963(RA 2011)
Date of Testing : 28.03.2022
Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	252	252	2.5	97.5	95-100
22.4	2021	2273	22.7	77.3	60-80
11.2	2693	4966	49.7	50.3	40-60
4.75	1528	6494	64.9	35.1	25-40
2.36	1254	7748	77.5	22.5	15-30
0.600	984	8732	87.3	12.7	8-22
0.075	1021	9753	97.5	2.5	0-5

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Job No.: CQCE/BBMP/MC/16/2021-2022

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Agency : **Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.

Name of Work : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore

IS Code: : IS 2386 (Part 1):1963(RA 2011)

Date of Testing : 28.03.2022

Material Type : Wet Mix Macadam

Oven Dry.Wt, grar 10000

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Requirement as per MORTH 5th edition table no 400.13
53	0	0	0	100	100
45	220	220	2.2	97.8	95-100
22.4	2563	2783	27.8	72.2	60-80
11.2	2369	5152	51.5	48.5	40-60
4.75	1682	6834	68.3	31.7	25-40
2.36	1021	7855	78.6	21.5	15-30
0.600	825	8680	86.8	13.2	8-22
0.075	852	9532	95.3	4.7	0-5

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Job No.: CQCE/BBMP/MC/16/2021-2022

Date: 28.03.2022

Aggregate Impact Value

Client	**Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	**: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor,
Name of the Work	: Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	28.03.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	386	388	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	88	90	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	298	298	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$	22.80	23.20	**23.00**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CQCE/BBMP/MC/16/2021-2022

Date: 28.03.2022

Aggregate Impact Value

Client	**Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	**: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor.
Name of the Work	: Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	28.03.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	381	383	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	82	84	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	299	299	
4	Aggregate Impact value = percent fines 100* (W_2/W_1)%	21.52	21.93	**21.73**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CQCE/BBMP/MC/16/2021-2022 Date: 28.03.2022

Aggregate Impact Value

Client	**Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	**: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor.
Name of the Work	: Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore
IS Code	IS 2386 (Part 4):1963(RA 2011)
Type of Mix	Wet Mix macadam
Date of Testing	28.03.2022

Sl No.	Details	Test No. 1	Test No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	384	386	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	80	82	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	304	304	
4	Aggregate Impact value = percent fines $100^* (W_2/W_1)\%$	20.83	21.24	**21.04**

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%(As per MORTH Specication table 400.12)

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Job No.: CQCE/BBMP/MC/16/2021-2022 Date : 28.03.2022

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Client	**Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency	**: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.
Name of Work	: Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore
BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	28.03.2022

Sl no	Test	1	2	3	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	12.2	11.8	14.6	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	13.5	12.5	10.2	
	Combined Flakiness & Elongation index	25.7	24.3	24.8	

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MC/16/2021-2022

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BIS code:	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	28.03.2022

Sl no	Test	1	2	3	Requirements as per MORTH 5th edition table no 400.12
1	Flakiness Index %	13.2	12.9	9.8	Combined Flakiness & Elongation index Max 35%
2	Elongation Index %	14.6	11.1	10.2	
	Combined Flakiness & Elongation index	27.8	24.0	20.0	

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Testing of Construction Material - Mechanical, Soil, Bitumen, Non Destructive Testing Services, Project Management Consultants, Third Party Quality Assurance, DPR.

Job No.: CQCE/BBMP/MC/16/2021-2022 Date 30.03.2022

ATTERBERG LIMITS TEST FOR WMM

Client **Executive Engineer,** R R Nagar Division, BBMP, Bangalore.
Agency **: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.
Name of Work : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore
IS Code: IS 2720(Part 5):1985
Date of Testing 28.03.2022 to 30.03.2022
Material Type **:** Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CQCE/BBMP/MC/16/2021-2022

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IS Code: IS 2720(Part 5):1985
Date of Testing 28.03.2022 to 30.03.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	21.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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IS Code: IS 2720(Part 5):1985
Date of Testing 28.03.2022 to 30.03.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	23.50	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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Job No.: CQCE/BBMP/MC/16/2021-2022

Date 30.03.2022

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Agency **: Sri. Maruthi Construction(H Hanumanthegowda),** Contractor, Bangalore.
Name of Work : Improvements and Asphalting to Selected Cross Roads and Main Roads in Ward No.16, Jalahalli, BBMP, Bangalore
IS Code: IS 2720(Part 5):1985
Date of Testing 28.03.2022 to 30.03.2022
Material Type : Wet Mix Macadam

Sl. No.	Particulars	Test Results	Requirement as per MORTH 5th edition Cl.406.2.1.2
1	Liquid Limit	22.00	-
2	Plasticity Index, %	Non Plastic	6.0% Maximum.

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